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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,825	08/15/2005	Alain Chenede	RN02106 2406	
75	90 08/29/2006		EXAM	INER
Jean-Louis Seugnet Intellectual Property Dept Rhodia			PUTTLITZ, KARL J	
259 Prospect Plains Road			ART UNIT	PAPER NUMBER
CN 7500 Cranbury, NJ	08512		1621	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)
Office Action Summary		10/521,825	CHENEDE ET AL.
		Examiner	Art Unit
		Karl J. Puttlitz	1621
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Properties of the period for reply is specified above, the maximum statutory period was to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on <u>21 Jac</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	s action is non-final. nce except for formal matters, pr	
Dispositi	ion of Claims		
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 32-62 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 32-36 and 38-62 is/are rejected. Claim(s) 37 is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the	wn from consideration. or election requirement. er. eepted or b) □ objected to by the	
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•	
•	ınder 35 U.S.C. § 119		
12)⊠ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. Is have been received in Applicate Inity documents have been received in PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachmen		0 🗆	(/DTO 413)
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 32-62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 32, for example, fails to recite the structure of the ester product.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 41, 42-44 and 48-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,915,975 to Cronin et al. (Cronin).

The rejected claims cover a method for preparing an ester of an aromatic carboxylic acid bearing at least one perfluoroalkyl group on the aromatic ring, comprising the steps of: a) reacting an aromatic compound bearing at least one perfluoroalkyl group and at least one nitrile group on the aromatic ring, an alkanol and a strong protonic acid, at a temperature of at least 45 C., and b) recovering the ester obtained from the reaction medium of step a).

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With regard to the above embodiments, Cronin teaches the following reaction:

See column 9 and definitions at

column 2.

Cronin fails to explicitly teach those exact reaction conditions and separation steps recited in the claims. However, these steps are well within the skill of those of ordinary skill for the purpose of optimization of the process, and are therefore, prima facie obvious.

Claims 32-36 and 38-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,868,333 to Dinizo et al. (Dinizo) in view of U.S. Patent No 4,307,113 to Anderson (Anderson).

The rejected claim cover those embodiments wherein the aromatic compound bearing at least one nitrile group and at least one perfluoroalkyl group corresponds to general formula:

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wherein A represents the residue of a benzene or

naphthalene ring.

With regard to the above embodiments, Dinizo teaches the following reaction at column 1 with sulfuric acid.

$$\longrightarrow^{\text{COOH}}_{G_1} \longrightarrow^{\text{COOH}}_{G_2}$$

Dinizo fails to explicitly teach the preparation of esters of the above compounds. However, it is for this proposition that the examiner joins Anderson, which teaches preparation of ethyl esters example 3 via acid amides in example 1. In this regard, the claims do not require a one step reaction. Those of ordinary skill would have been motivated to modify the disclosure of Dinizo to include the preparation of the esters since Anderson teaches that these compounds are useful in pharmaceutical preparations. Therefore, the combination of Dinizo and Anderson renders the rejected claims prima facie obvious since these references teach or suggest the elements of the claims with a reasonable expectation of success.

The examiner notes that the recited reaction conditions and separation steps are well within the skill of those of ordinary skill for the purpose of optimization of the process, and are therefore, prima facie obvious.

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Claim Objections

Claim 37 is objected to for dependence on one or more rejected claims but would be allowable if rewritten in independent for including all limitations of intervening claims. In this regard a search of the prior art failed to uncover a reference using m-trifluoromethylbenzonitril as a reagent. The search also failed to uncover a reference that would have motivated those of ordinary skill to modify a known process for producing th reited aromatic carboxylic acid esters using a m-trifluoromethylbenzonitril as a reagent.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page, can be reached at telephone number (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl J. Puttlitz

Assistant Examiner